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CLAIMS:

- 1. An inkjet recording element comprising a support and at least one ink-receiving layer, characterized in that said ink-receiving layer comprises at least one hydrosoluble binder and at least one aluminosilicate polymer obtainable by a preparation method that comprises the following steps:
 - a) treating a mixed aluminum and silicon alkoxide only comprising hydrolyzable functions, or a mixed aluminum and silicon precursor resulting from the hydrolysis of a mixture of aluminum compounds and silicon compounds only comprising hydrolyzable functions, with an aqueous alkali, in the presence of silanol groups, the aluminum concentration being maintained at less than 0.3 mol/l, the Al/Si molar ratio being maintained between 1 and 3.6 and the alkali/Al molar ratio being maintained between 2.3 and 3;
 - b) stirring the mixture resulting from step a) at ambient temperature in the presence of silanol groups long enough to form the aluminosilicate polymer;
 - c) eliminating the byproducts formed during steps a) and b) from the reaction medium; and
 - d) adding at least one chelating agent of aluminum to the aluminosilicate polymer, the molar ratio between the chelating functions of the chelating agent and the aluminum of the aluminosilicate polymer being greater than or equal to 1.
- 2. The recording element according to claim 1, wherein the alkali of step a) to prepare the aluminosilicate polymer is selected from the group consisting of sodium, potassium, or lithium hydroxide, diethylamine and triethylamine.
- 3. The recording element according to claim 1, wherein the silanol groups used to prepare the aluminosilicate polymer are supplied as silica or glass beads.

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4. The recording element according to claim 1, wherein the aluminum concentration used to prepare the aluminosilicate polymer is maintained between 1.5×10^{-2} and 0.3 mol/l.

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5. The recording element according to claim 1, wherein the aluminum concentration used to prepare the aluminosilicate polymer is maintained between 4.4×10^{-2} and 0.3 mol/l.

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- 6. The recording element according to claim 1, wherein said alkali/Al molar ratio to prepare the aluminosilicate polymer is about 2.3.
 - 7. The recording element according to claim 1, wherein said alkali/Al molar ratio to prepare the aluminosilicate polymer is about 3.

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8. The recording element according to claim 1, wherein the method for preparing the aluminosilicate polymer comprises, after step b) and before step c), a step e), by which alkali is added in order to reach an alkali/Al molar ratio of 3 if this ratio has not already been reached in step a).

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9. The recording element according to claim 1, wherein the mixed aluminum and silicon precursor resulting from hydrolysis of a mixture of aluminum compounds and silicon compounds only having hydrolyzable functions is a product resulting from the mixture in an aqueous medium (i) of a compound selected from the group consisting of aluminum salts, aluminum alkoxides and aluminum halogenoalkoxides and (ii) at least one compound selected from the group consisting of silicon alkoxides and chloroalkoxides only having hydrolyzable functions.

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10. The recording element according to claim 9, wherein said mixed aluminum and silicon precursor is the product resulting from the mixture (i)

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of an aluminum halide and (ii) a silicon alkoxide only having hydrolyzable functions.

- 11. The recording element according to claim 10, wherein said silicon alkoxide only having hydrolyzable functions is tetramethyl orthosilicate or tetraethyl orthosilicate.
 - 12. The recording element according to claim 1, wherein step d) is directly applied to the aluminosilicate polymer resulting from step b) or from step c) or at the time of the preparation of the coating composition for the inkreceiving layer from an aluminosilicate polymer resulting from step c).
 - 13. The recording element according to claim 1, wherein the chelating agent of aluminum is selected from the group consisting of carboxylic acids, phosphonic acids, phosphinic acids, sulfonic acids, difunctional acids, their esters and anhydrides, and amino acids.
 - the recording element according to claim 13, wherein said chelating agent of aluminum is selected from the group consisting of HCOOH, R₁COOH, where R₁ is selected from the group consisting of CH₃(CH₂)_n, n being between 0 and 12, CF₃, C₆H₅, (C₆H₅)₂, substituted aromatic rings, C₄H₄S; R₂PO(OH)₂ where R₂ is selected from the group consisting of CH₃, C₆H₅, R₃SO₃H where R₃ is CH₃(CH₂)_n, n being between 0 and 5; HOOC(CH₂)_nCOOH, n = 0-8; aromatic diffunctional acids; HOOC(CH₂)_nPO(OH)₂, n = 2, 4; aliphatic hydroxy acids; HOOC(CH₂OH)_nCOOH, n = 1-2; CH₃CH(NH₂)COOH.
 - The recording element according to claim 1, wherein step d) comprises a first adding of acetic acid and a following adding of another chelating agent of aluminum.

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16 The recording element according to claim 1, wherein said ink-receiving layer comprises between 5 and 95 percent by weight of aluminosilicate polymer compared with the total weight of the dry ink-receiving layer.

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17. The recording element according to claim 1, wherein the hydrophilic binder is gelatin or polyvinyl alcohol.